

## Amendment and Response

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Serial No.: 09/806,086

Confirmation No.: 3790

Filed: June 22, 2001

For: MUCOSAL ORIGINATED DRUG DELIVERY SYSTEMS AND ANIMAL APPLICATIONSAmendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the above-identified application:

1. (canceled)
2. (withdrawn - currently amended) The method according to claim ~~[[1]]~~21 wherein the transmucosal drug delivery device comprises more than one pharmacological agent.
3. (withdrawn - currently amended) The method according to claim ~~[[1]]~~21 wherein the pharmacological agent is selected from the group consisting of alpha 2 agonists, alpha 2 antagonists, analgesics, corticosteroids and sedatives.
4. (withdrawn - currently amended) The method according to claim 3 wherein the sedative is selected from the group consisting of detomidine, medetomidine, dexmedetomidine, fentanyl, ketamine, atapamazole and pharmaceutically acceptable salts thereof.
5. (withdrawn - currently amended) The method according to claim ~~[[1]]~~21 wherein the device is applied post surgically.
6. (withdrawn - currently amended) The method according to claim ~~[[1]]~~21 wherein the mucous membrane is an oral mucous membrane.
7. (withdrawn - currently amended) The method according to claim ~~[[1]]~~21 wherein the condition ameliorated is an opthalmic condition and the mucous membrane is a conjunctival membrane.

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8. (canceled)
9. (withdrawn - currently amended) The method according to claim ~~[[8]]~~22 wherein the physiological system modified is the reproductive system.
10. (withdrawn - currently amended) The method according to claim ~~[[8]]~~22 wherein the physiological system modified is the immune system.
11. (previously presented) A transmucosal drug delivery device having a composition comprising:
- a polymeric resin;
  - a linear elastomeric polymer;
  - a cross-linked elastomeric polymer being 30-80% cross-linked; and
  - a pharmacological agent,
- wherein the ratio of linear elastomeric polymer to cross-linked elastomeric polymer is about 1:2 to 5:1.
12. (canceled)
13. (original) A transmucosal drug delivery device according to claim 11 wherein:
- (i) the polymeric resin is a particular polymeric resin present in an amount of from about 40 to about 65 percent by weight based on the total weight of the composition;
  - (ii) the linear elastomeric polymer is present in an amount of from about 15 to about 50 percent by weight based on the total weight of the composition; and
  - (iii) the cross-linked elastomeric poly is present in an amount of from about 5 to about 30 percent by weight based on the total weight of the composition.

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14. (original) The transmucosal drug delivery device according to claim 13 wherein the particulate polymeric resin is a linear polyacrylic acid resin.
15. (original) The transmucosal drug delivery device according to claim 13 wherein the linear elastomeric polymer is selected from the group consisting of polyisobutylene, polyisoprene and mixtures thereof.
16. (original) The transmucosal drug delivery device according to claim 13 wherein the cross-linked elastomeric polymer is a cross-linked butyl terpolymer rubber.
17. (original) The transmucosal drug delivery device according to claim 13 further comprising a penetration enhancer.
18. (previously presented) The transmucosal drug delivery device according to claim 11 wherein the pharmacological agent is selected from the group consisting of detomidine, medetomidine, dexmedetomidine, atapamazole, fentanyl, ketamine and pharmaceutically acceptable salts thereof.
19. (original) The transmucosal drug delivery device according to claim 17 wherein the pharmacological agent is present in an amount of from about 2 to about 5 percent by weight based on the total weight of the composition and the pharmacological agent is selected from the group consisting of medetomidine, dexmedetomidine and pharmaceutically acceptable salts thereof; and glycerol monolaurate is present in an amount of from about 0.5 to 5 percent by weight based on the total weight of the composition.
20. (original) The transmucosal drug delivery device according to claim 11 wherein the pharmacological agent is present in an amount from about 0.5 to about 10 percent based on the total weight of the composition.

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21. (new) A method for administering a pharmacological agent to an animal affected by a condition that is ameliorated by receiving the pharmacological agent, the method comprising:

providing a transmucosal drug delivery device having

(i) a composition comprising:

- a polymeric resin;
- a linear elastomeric polymer;
- a cross-linked elastomeric polymer being 30-80% cross-linked,

wherein the ratio of linear elastomeric polymer to cross-linked elastomeric polymer is about 1:2 to 5:1; and

- a pharmacological agent; and

(ii) an adhesive suitable for adhering the device to a mucous membrane of the animal; and

applying a transmucosal drug delivery device to the mucous membrane of the animal.

22. (new) A method for modifying a physiological system of an animal, the method comprising:

providing a transmucosal drug delivery device having

(i) a composition comprising:

- a polymeric resin;
- a linear elastomeric polymer;
- a cross-linked elastomeric polymer being 30-80% cross-linked,

wherein the ratio of linear elastomeric polymer to cross-linked elastomeric polymer is about 1:2 to 5:1; and

- the pharmacological agent; and

(ii) an adhesive suitable for adhering the device to a mucous membrane of the animal; and

applying a transmucosal drug delivery device to the mucous membrane of the animal.